

# MARSHALL MULTISPREAD SPINNER VANE SETUP

## *Type A Vanes and Fertiliser Deflector*

Older model Multispread were fitted with 6 mild steel angle spinner vanes on each spinner disc. These vanes can be used to spread granulated fertilisers up to 24 metres and non-granulated products up to 10 metres.

The spinner vanes can be adjusted to spread light applications of granulated fertilisers and seeds as well as heavy rates of non granulated materials such as lime, gypsum and manures.

Each vane is attached to the spinner disc by two bolts - an inner and an outer. The outer bolt can be varied to alter the angle of the spinner vanes. see fig 15 and 16 below.

For non granulated materials the fertiliser deflector chute should be removed to prevent clogging around the spinners.

Material	Outer Bolt Position	Fertiliser Deflector Chute Fitted
Granulated Fertilisers, Grain and Seeds	A	YES
Light to Medium Applications of Non-Granulated Product - Lime/Gypsum/Manures	A	NO
Heavy Applications of Non-Granulated Product - Lime/Gypsum/Manures	B	NO

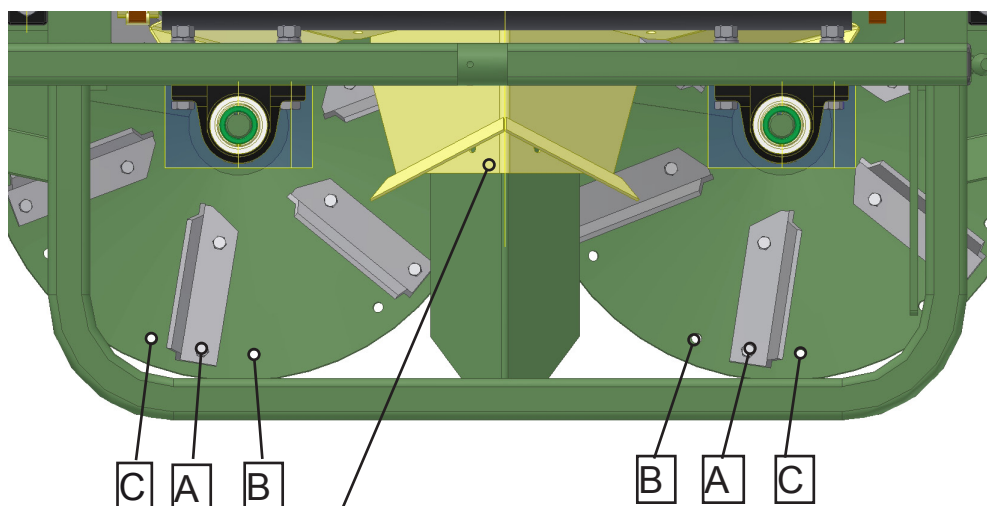


Fig 15

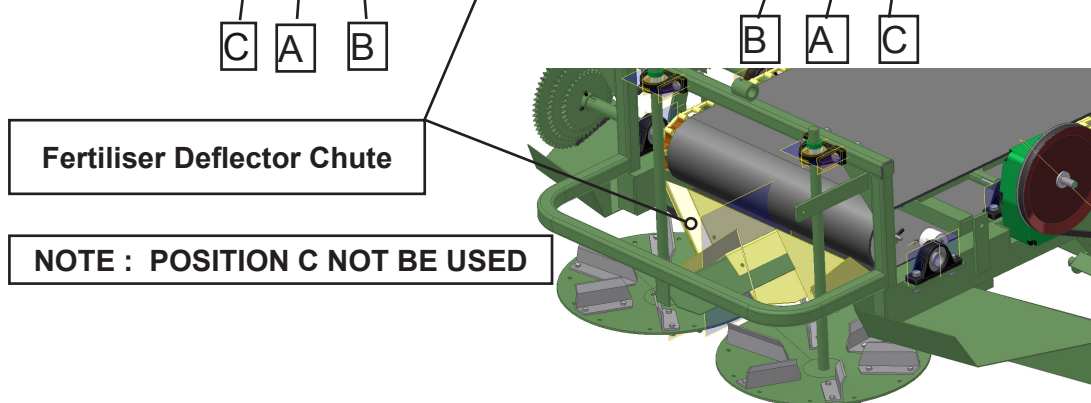


Fig 16

# MARSHALL MULTISPREAD SPINNER VANE SETUP

## *Type B Vanes and Fertiliser Deflector*

Multispreads from 2006 production are fitted with three spinner vanes, pressed in a “C” channel and manufactured from 5mm Mild Steel. A simplified fertiliser deflector is also fitted.

The pressed “C” channel vanes can be used to spread granulated fertiliser up to 28 metres and non granulated products up to 12m.

The pitch or angle of each spinner vane can be altered to suit different fertiliser application rates. However a general setting to suit granulated fertilisers and non-granulated products is to have the three vanes on each spinner on three different angles. This is done by setting each vane on different outer holes on the spinner disc - see Fig 17 below.

The Fertiliser Deflector should be fitted for both granulated and non-granulated products.

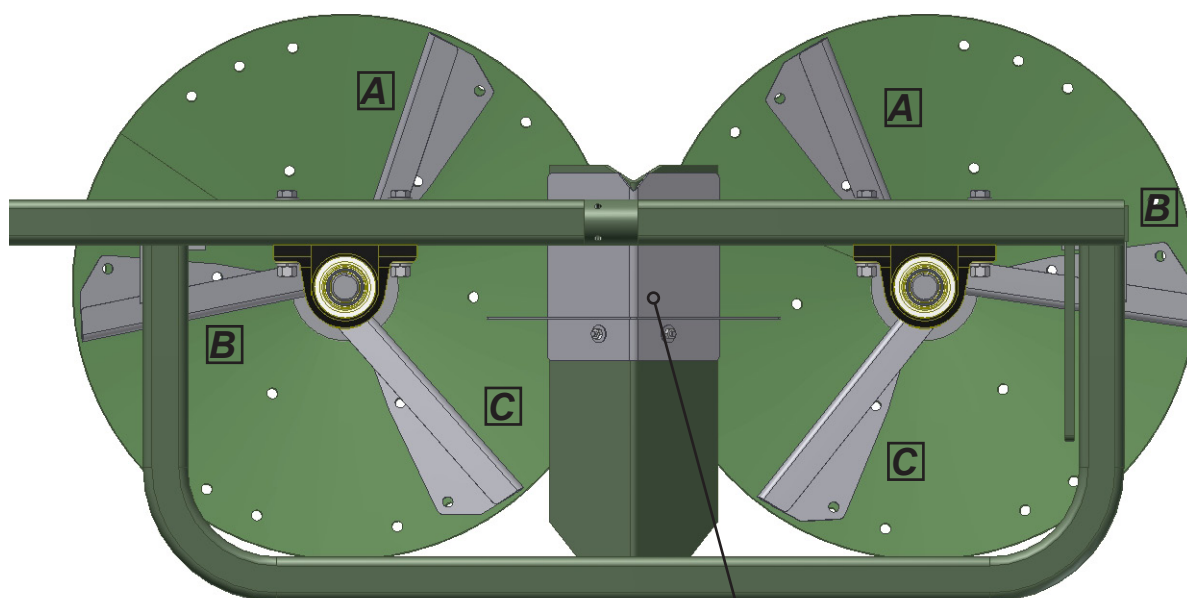


Fig 17

Vane Position	Outer Bolt Position
Position A	Centre Hole
Position B	Clockwise Hole
Position C	Counter Clockwise Hole

Fertiliser Deflector Chute

# MARSHALL MULTISPREAD SPINNER VANE SET UP

## ***Type C Vanes and Fertiliser Deflector***

Multisreads from 2009 production were fitted with two 700mm diameter spinners, with convex centre dish. Six spinner vanes, pressed in a “C” channel and manufactured from 5mm mild steel are fitted to each spinner. see Fig 18 below.

### **All granulated Fertilizers, Seed and Dry Lime**

For the best spread widths and uniformity it is recommended that the Fertilizer Deflector Chute be fitted and each spinner vane be bolted to the disc in the middle outer hole.

### **Spinner Speed - 800 RPM**

### **Spread widths between passes**

Seed - the spread width will depend on the size of seed.

Urea (approx 750kg/m<sup>3</sup>) 22m to 28m

Compound Fertilizers (approx 950kg/m<sup>3</sup>) 24m to 28m

Superphosphate (approx 1150kg/m<sup>3</sup>) 26m to 32m

Dry Lime (approx 1000kg/m<sup>3</sup>) 10m to 12m

### **Non Granulated Products - Lime, Gypsum and Manures**

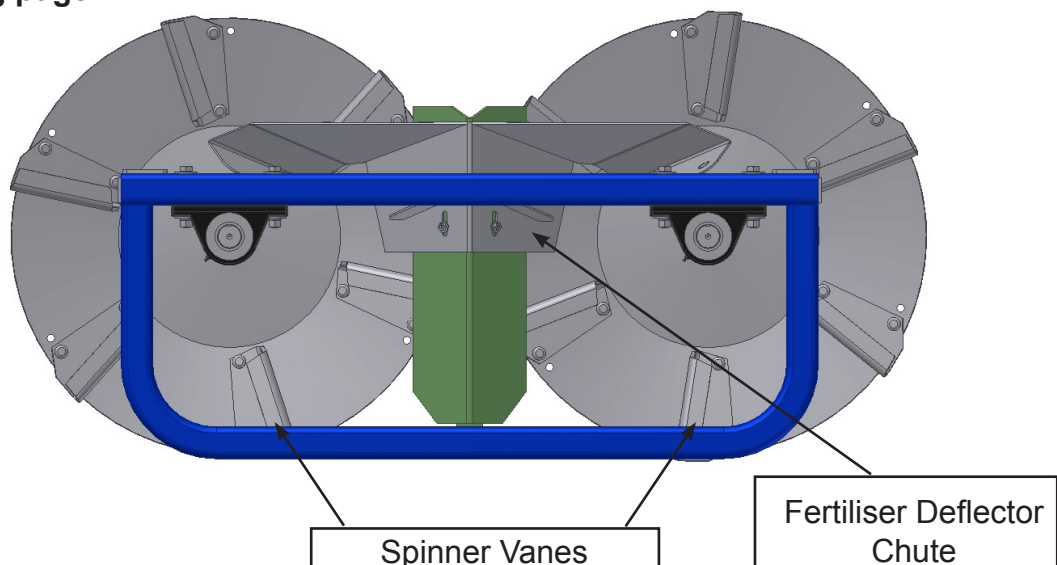
To spread these non-granulated products that may be lumpy and damp and are generally applied at higher rates, it is recommended that the Fertilizer Deflector Chute is removed leaving only the fixed divider above the spinners. Each spinner vane is to be bolted to the disc in the middle outer hole.

### **Spinner Speed 700 to 800 RPM**

### **Spread widths between passes**

Non-granulated products - 6m to 12m

For further information on the fertiliser chute position see the drawing on the following page.



**Fig 18**

# MARSHALL MULTISPREAD SPINNER VANE SETUP

